

Bridge Inspection Report

A6877
I-540 SB Lanes-Seb
over
State Highway 22



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

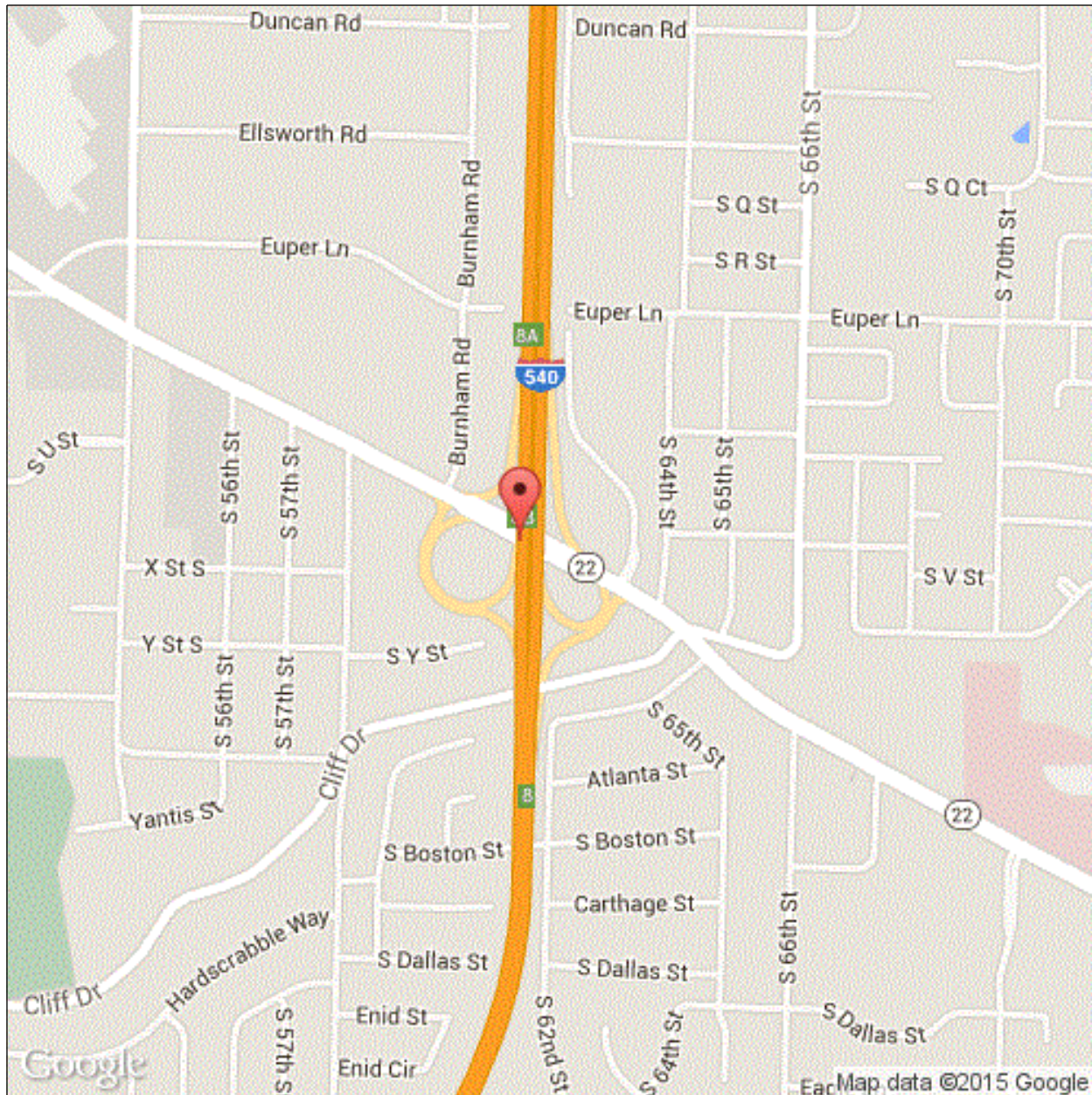
Structure Number: A6877

Inspection Date:

Facility Carried: I-540 SB Lanes-Seb

Bridge Inspection Report

Location Map



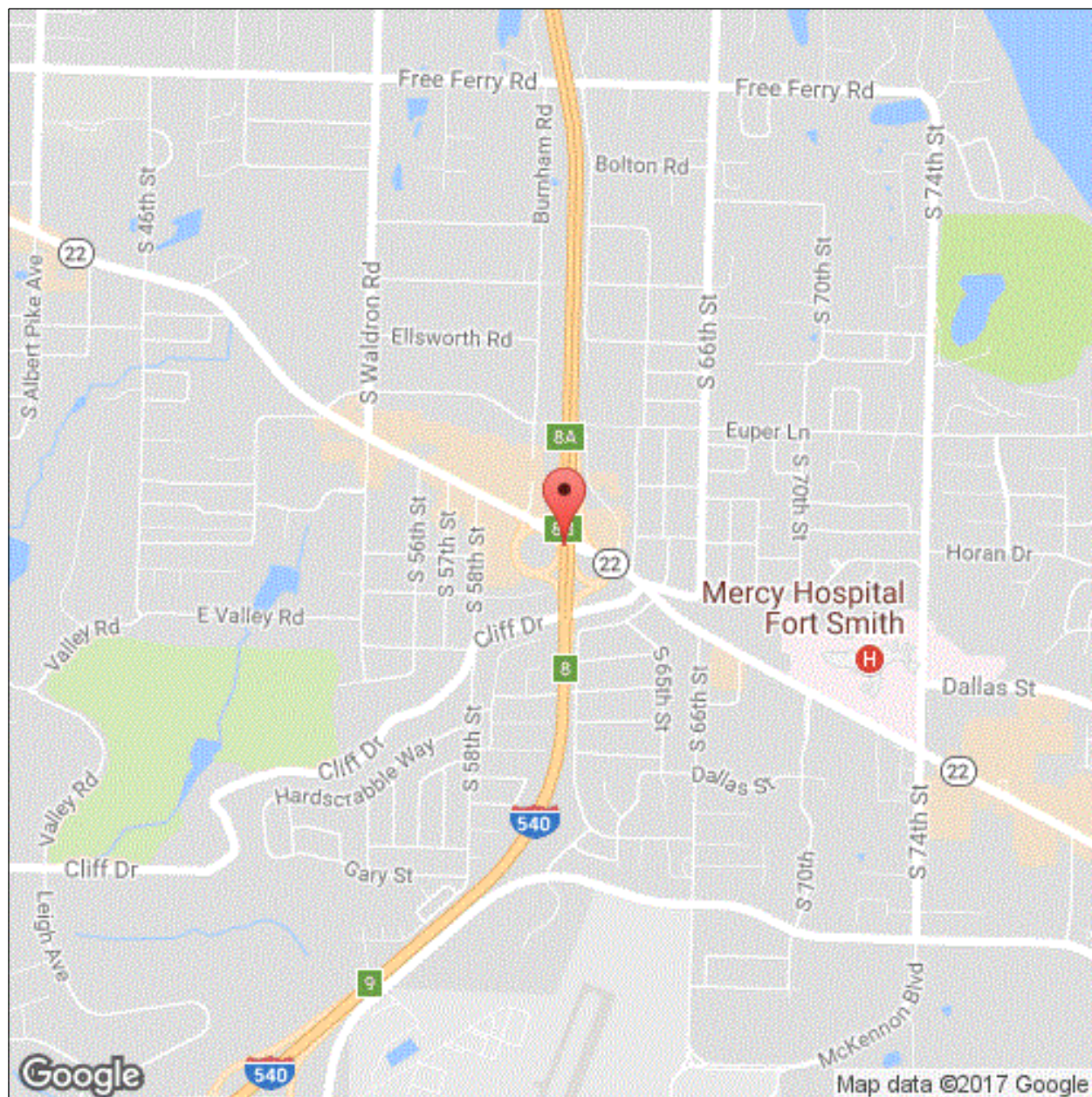
Latitude: 35.35938

Longitude: -94.36513

Structure Number: A6877

Facility Carried: I-540 SB Lanes-Seb

Location Map



Longitude: -94.36513

Inspector:

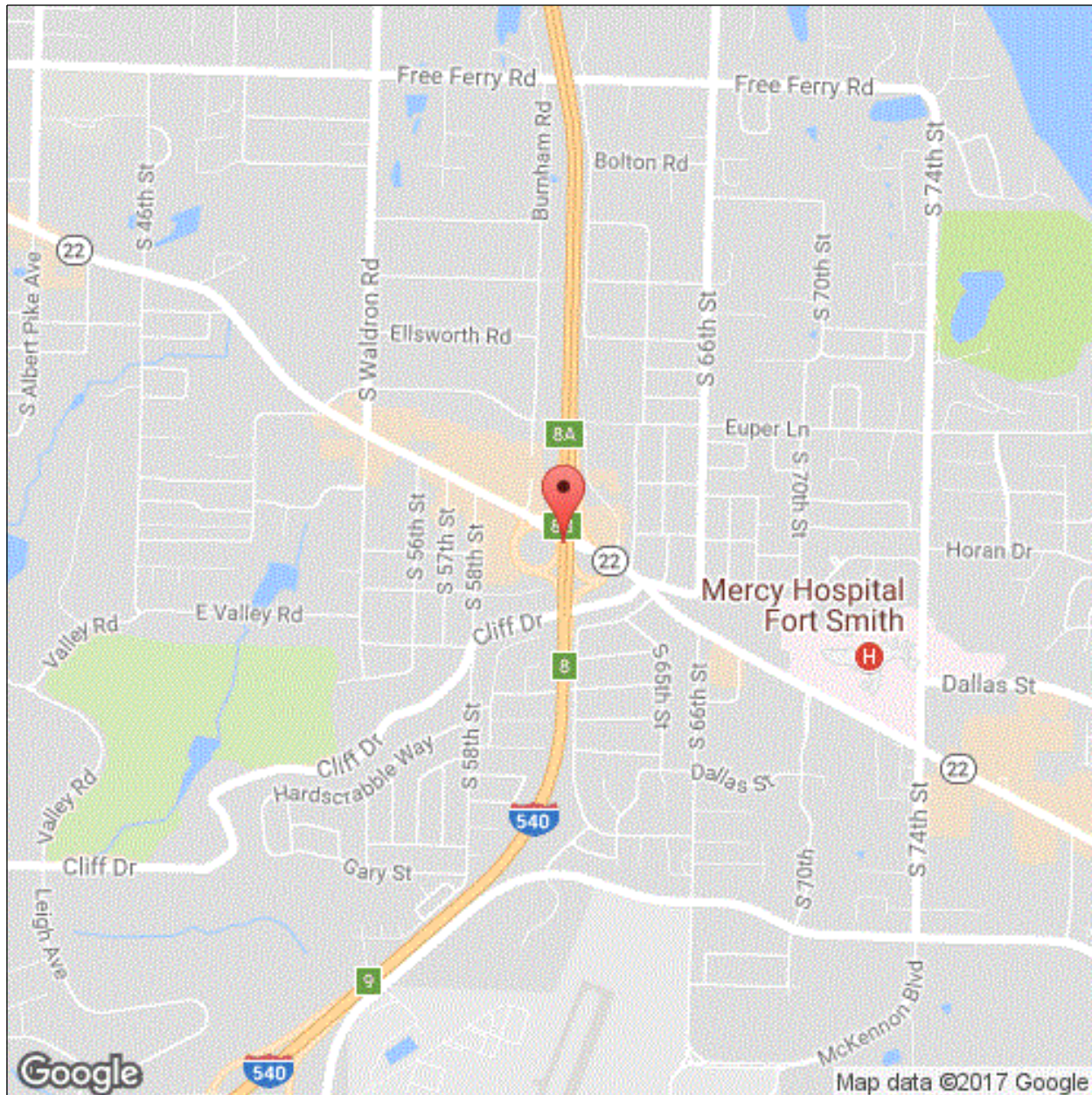
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Location Map



Latitude: 35.35938

Longitude: -94.36513

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Executive Summary

09/27/2016 - JCJ & JML - Vertical Underclearance was actual field measured this date.

Inspector:

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/27/2017
(8) STRUCTURE NUMBER	A6877	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 540 3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 131	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	24060	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	State Highway 22	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-540 SB Lanes-Seb		
(9) LOCATION	6.73 Mi NE OK State Line		
(11) MILEPOINT 6.730	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000540010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.35938	(17) LONGITUDE -94.36513		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	8
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous		(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 2	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 5		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 2013	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 6 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 03 UNDER 05		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 92677	(19) BYPASS DETOUR LENGTH 0	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2013		(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC 12		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 94	(49) STRUCTURE LENGTH (ft.) 188	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 49.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.) 60.2		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 36.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 27	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 1	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 50.9		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.90		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 17.41		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 16.0		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 3.7		SUFFICIENCY RATING	0 STATUS 96.0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(95) ROADWAY IMPROVEMENT COST (\$)		(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST		(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 36242	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	4
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(111) PIER OR ABUTMENT PROTECTION	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

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Bridge Inspection Report

National Bridge Inventory

UNDER RECORD A

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I540 SB Lanes
(3) COUNTY CODE	131	(8) STRUCTURE NUMBER	A6877
(4) PLACE CODE	24060	(9) LOCATION	6.73 Mi NE OK State Line
(5) INV. ROUTE (ON/UNDER)	A 3 1 22 2	(11) MILEPOINT	3.670 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	SH 22 - Sec 1	(13A) LRS INVENTORY ROUTE	0000022010 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. (17) LONGITUDE -94.3651666666667
			3595555555556

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
 B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	4	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	2013	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 03	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	19500		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	18.0	(48) LENGTH OF MAXIMUM SPAN	94 (49) STRUCTURE LENGTH 188
(47) TOTAL HORIZONTAL CLEARANCE	57.0		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	1

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I540 SB Lanes
(3) COUNTY CODE	131	(8) STRUCTURE NUMBER	A6877
(4) PLACE CODE	24060	(9) LOCATION	6.73 Mi NE OK State Line
(5) INV. ROUTE (ON/UNDER)	B 3 1 22 4	(11) MILEPOINT	3.670 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	SH 22 - Sec 1	(13A) LRS INVENTORY ROUTE	0000022010 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. (17) LONGITUDE -94.3651666666667
			3595555555556

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
 B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	4	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	2013	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	19500		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	17.5	(48) LENGTH OF MAXIMUM SPAN	94 (49) STRUCTURE LENGTH 188
(47) TOTAL HORIZONTAL CLEARANCE	45.0		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	0

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	10613	sq. ft.	10557	56	0	0
	<p>09/27/2016 - JCJ & JML - The deck has a new polymer overlay since the last inspection. Transverse cracks with light efflorescence are visible from the undersurface of the overhang. The transverse cracks appear to correspond with the joints in the parapet walls.</p> <p>09/17/2015 - EJW & RWF - Transverse cracks in the driving surface that appear to correspond with the saw joint's in the parapets. Isolated areas of longitudinal cracks in the gutters visible in both spans. Majority of the deck has pop outs from shale inclusions. Light efflorescence is visible on the cracks in the overhang under the parapets.</p>						
1120 - Efflorescence/Rust Staining		2			2		
1130 - Cracking (RC and Other)		54			54		
510 - Wearing Surfaces		10613	sq. ft.	10613			
107 - Steel Open Girder/Beam	1- Ben.	1692	ft.	1692			
	09/27/2016 - JCJ & JML - No visible cracks apparent in the steel beams. No apparent noteworthy problems at this inspection.						
515 - Steel Protective Coating		18969	sq. ft.	18969			
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
	09/27/2016 - JCJ & JML - No apparent noteworthy problems at this inspection.						
215 - Reinforced Concrete Abutment	1- Ben.	129	ft.	81	48	0	0
	09/27/2016 - JCJ & JML - Transverse cracks in the tops of the back walls and vertical hairline cracks at the steps of the abutments.						
1130 - Cracking (RC and Other)		48			48		
234 - Reinforced Concrete Pier Cap	1- Ben.	65	ft.	65			
	09/27/2016 - JCJ & JML - No apparent noteworthy problems at this inspection.						
300 - Strip Seal Expansion Joint	1- Ben.	119	ft.	119			
	09/27/2016 - JCJ & JML - Joint seals are in place, anchorage appears to be sound with no apparent leakage at this inspection. There is minor debris accumulation in areas at this inspection.						
310 - Elastomeric Bearing	1- Ben.	27	each	27			
	09/27/2016 - JCJ & JML - No apparent noteworthy problems at this inspection.						
321 - Reinforced Concrete Approach Slab	1- Ben.	4902	sq. ft.	0	4902	0	0
	09/27/2016 - JCJ & JML - Minor transverse cracking in random locations. Both approach slabs have hairline map cracking. There are numerous pop outs on the driving surface of the approach slabs due to shale inclusion in the concrete. The North approach slab has been ground to grade from the construction process.						
1130 - Cracking (RC and Other)		4902			4902		

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Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	376	ft.	276	100	0	0
		09/27/2016 - JCJ & JML - The parapet walls have vertical hairline cracks at variable spacing. There are a few isolated horizontal hairline cracks with light efflorescence in the face of the parapet walls located approximately 8" below the top of the parapet.					
1120 - Efflorescence/Rust Staining		6			6		
1130 - Cracking (RC and Other)		94			94		

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Bridge Inspection Report

Pictures

Inspector:

Inspection Date:

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Facility Carried: I-540 SB Lanes-Seb

Bridge Inspection Report

Sketches

Inspector:

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Maintenance Needs